

533 989

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number  
**WO 2004/041902 A2**

(51) International Patent Classification<sup>7</sup>: **C08G 61/02,**  
C09K 11/06, H01L 51/00

Technology Limited, Greenwich House, Madingley Rise,  
Madingley Road, Cambridge, Cambridgeshire CB3 0TX  
(GB).

(21) International Application Number:  
PCT/GB2003/004753

(74) Agent: **SHADE, Matthew**; Cambridge Display Technol-  
ogy Limited, Greenwich House, Madingley Rise, Mading-  
ley Road (GB).

(22) International Filing Date:  
4 November 2003 (04.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0225869.7 6 November 2002 (06.11.2002) GB

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,  
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **CAM-  
BRIDGE DISPLAY TECHNOLOGY LIMITED**  
[GB/GB]; c/o IP Department, Greenwich House, Madin-  
gley Rise, Madingley Road, Cambridge, Cambridgeshire  
CB3 0TX (GB).

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

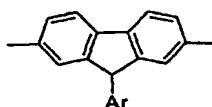
(75) Inventors/Applicants (*for US only*): **BURROUGHES,**  
**Jeremy** [GB/GB]; c/o Cambridge Display Technology  
Limited, Greenwich House, Madingley Rise, Mading-  
ley Road, Cambridge, Cambridgeshire CB3 0TX (GB).  
**FRIEND, Richard** [GB/GB]; c/o Cambridge Display  
Technology Limited, Greenwich House, Madingley Rise,  
Madingley Road, Cambridge, Cambridgeshire CB3 0TX  
(GB). **FODEN, Clare** [GB/GB]; c/o Cambridge Display

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: POLYMER



(I)

(57) Abstract: A polymer comprising optionally substituted first repeat units of formula (I): wherein Ar is selected from: (a) aromatic hydrocarbon substituted with at least one electron withdrawing group or (b) electron withdrawing heteroaryl. The polymers have application in electroluminescent devices.

WO 2004/041902 A2